

[illegible]

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A^1 is a ring represented by the formula:

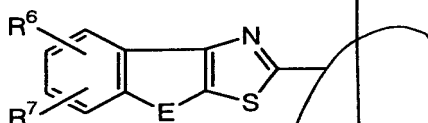


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oxygen atom or a sulfur atom; R³ and R⁴ are both hydrogen atoms or taken together may form an oxygen atom or a sulfur atom; R⁵ is a hydrogen atom or lower alkyl; Q and V are each independently -O-, -S-, -NR^B- (wherein R^B is a hydrogen atom or lower alkyl), or -CH₂-; m is 1, 2, or 3;

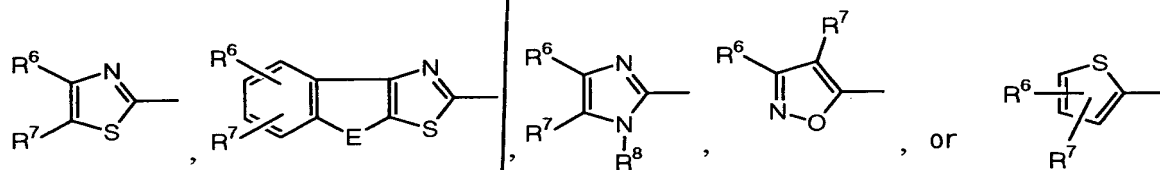
5 a broken line (---) represents the presence or absence of a bond,
its prodrug, or their pharmaceutically acceptable salt, or solvate thereof.

2. A pharmaceutical composition exhibiting thrombopoietin agonism which contains a compound of claim 1, wherein X¹ is optionally substituted 5-member heteroaryl or a group represented by the formula:



10 wherein E is -(CH₂)₁₋₃-, -O-CH₂-, or -S-CH₂-; R⁶ and R⁷ are each independently a hydrogen atom, optionally substituted lower alkyl, carboxy, lower alkyloxycarbonyl, optionally substituted aminocarbonyl, optionally substituted thienyl, or optionally substituted phenyl.

15 3. A pharmaceutical composition exhibiting thrombopoietin agonism which contains a compound of claim 1, wherein X¹ is a group represented by the formula:

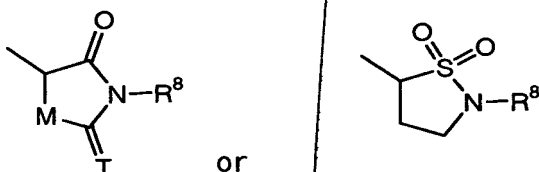


20 wherein E is -(CH₂)₁₋₃-, -O-CH₂-, or -S-CH₂-; R⁶ and R⁷ are each independently a hydrogen atom, optionally substituted lower alkyl, carboxy, lower alkyloxycarbonyl, optionally substituted aminocarbonyl, optionally substituted thienyl, or optionally substituted phenyl; R⁸ is a hydrogen atom or lower alkyl.

4. A pharmaceutical composition of any one of claims 1 to 3, wherein Y¹ is -NHCO-, -CONH-, -NHCH₂-, or -NHSO₂-.

5. A pharmaceutical composition of any one of claims 1 to 4, wherein Z¹ is 1,4-phenylene.

5 6. A pharmaceutical composition of any one of claims 1 to 6, wherein A¹
is a ring represented by the formula:



wherein R⁸ is a hydrogen atom or lower alkyl; M is -S-, -O-, -N(R^c)-, or -CH₂- (wherein R^c is a hydrogen atom or lower alkyl); T is an oxygen atom or a sulfur atom.

7. A pharmaceutical composition of any one of claims 1 to 6, wherein the broken line represents the presence of a bond.

8. A pharmaceutical composition of any one of claims 1 to 7, which is for treating or preventing hemopathy.

15 9. A pharmaceutical composition of any one of claims 1 to 7, which is a platelet production modifier.

10. Use of a compound of any one of claims 1 to 7 for preparation of a pharmaceutical composition for treating hemopathy.

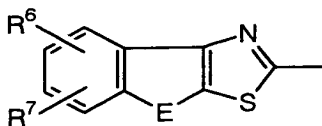
11. A method for treating hemopathy of a mammal, including a human,
20 which comprises administration to said mammal of a compound of any one of
claims 1 to 7 in a pharmaceutically effective amount.

12. A compound represented by the formula (II)



wherein X² is optionally substituted 5-member heteroaryl or a group

represented by the formula:



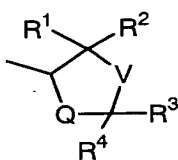
wherein E is $-(CH_2)_{1-3}-$, $-O-CH_2-$, or $-S-CH_2-$; R^6 and R^7 are each independently a hydrogen atom, optionally substituted lower alkyl, carboxy, lower alkyloxycarbonyl, optionally substituted aminocarbonyl, optionally substituted thienyl, or optionally substituted phenyl;

Y^2 is $-NR^GCO-(CH_2)_{0-2}-$, $-NR^GCO-(CH_2)_{0-2}-W-$, $-NR^GCO-CH=CH-$, $-W-(CH_2)_{1-5}-NR^GCO-(CH_2)_{0-2}-$, $-W-(CH_2)_{1-5}-CONR^G-(CH_2)_{0-2}-$, $-CONR^G-(CH_2)_{0-2}-$, $-(CH_2)_{0-5}-NR^G-SO_2-(CH_2)_{0-5}-$, $-(CH_2)_{0-5}-SO_2-NR^G-(CH_2)_{0-5}-$, $-NR^G-(CH_2)_{0-2}-$, $-NR^G-CO-NR^G-$, $-NR^G-CS-NR^G-$, $-N=C(-SR^G)-NR^G-$, $-NR^GCSNR^GCO-$, $-N=C(-SR^G)-NR^GCO-$, $-NR^G-(CH_2)_{1-2}-NR^GCO-$, $-NR^GCONR^GNR^FCO-$, or $-N=C(-NR^GR^G)-NR^GCO-$,

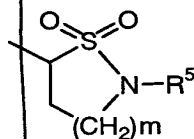
wherein R^G is each independently a hydrogen atom or optionally substituted lower alkyl, R^F is a hydrogen atom or optionally substituted aryl, W is an oxygen atom or a sulfur atom;

Z^2 is optionally substituted phenylene, optionally substituted 2,5-pyridine-diyl, optionally substituted 2,5-thiophene-diyl, or optionally substituted 2,5-furan-diyl;

A^2 is a ring represented by the formula:



or



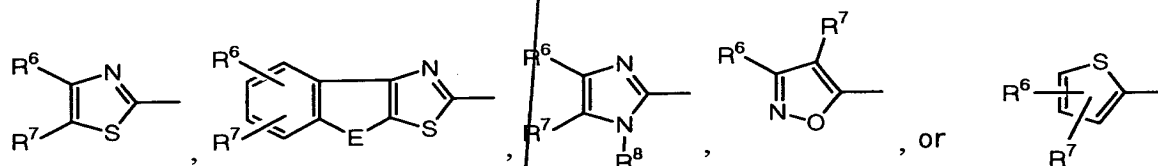
wherein R^1 and R^2 are both hydrogen atoms or taken together may form an oxygen atom or a sulfur atom; R^3 and R^4 are both hydrogen atoms or taken together may form an oxygen atom or a sulfur atom; R^5 is a hydrogen atom or

lower alkyl; Q and V are each independently -O-, -S-, -NR^B- (wherein R^B is a hydrogen atom or lower alkyl), or -CH₂-; m is 1, 2, or 3;

a broken line (---) represents the presence or absence of a bond,
provided that X² is not oxazole,

its prodrug, or their pharmaceutically acceptable salt, or solvate thereof.

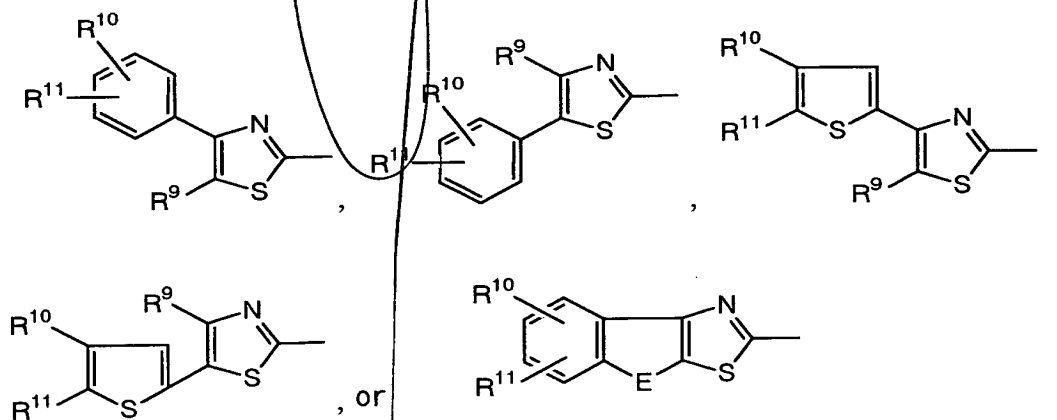
13. A compound of claim 12, wherein X² is a group represented by the formula:



wherein E is -(CH₂)₁₋₃-, -O-CH₂-, or -S-CH₂-; R⁶ and R⁷ are each independently a hydrogen atom, optionally substituted lower alkyl, carboxy, lower alkyloxycarbonyl, optionally substituted aminocarbonyl, optionally substituted thienyl, or optionally substituted phenyl; R⁸ is a hydrogen atom or lower alkyl,

its prodrug, or their pharmaceutically acceptable salt, or solvate thereof.

14. A compound of claim 12, wherein X² is a group represented by the formula:



wherein E is as defined in claim 12;

R⁹ is a hydrogen atom, optionally substituted lower alkyl, carboxy, lower

alkyloxycarbonyl, or optionally substituted aminocarbonyl;

R¹⁰ and R¹¹ are each independently a hydrogen atom, halogen, carboxy, lower alkyloxycarbonyl, optionally substituted aminocarbonyl, nitro, or optionally substituted amino,

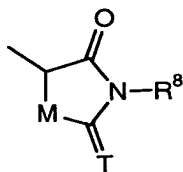
5 its prodrug, or their pharmaceutically acceptable salt, or solvate thereof.

15. A compound of any one of claims 12 to 14, wherein Y² is -NHCO-, -CONH-, -NHCH₂-, or -NHSO₂-,

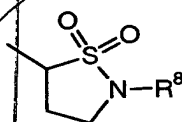
its prodrug, or their pharmaceutically acceptable salt, or solvate thereof.

16. A compound of any one of claims 12 to 15, wherein Z² is 1,4-phenylene, its prodrug, or their pharmaceutically acceptable salt, or solvate thereof.

17. A compound of any one of claims 12 to 16, wherein A² is a ring represented by the formula:



or



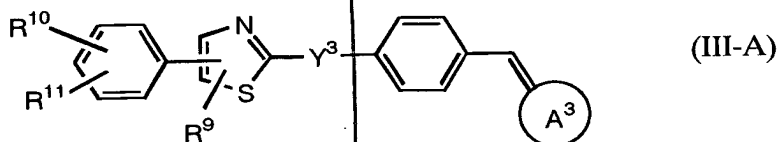
15 wherein R⁸ is a hydrogen atom or lower alkyl; M is -S-, -O-, -N(R^c)-, or -CH₂- (wherein R^c is a hydrogen atom or lower alkyl); T is an oxygen atom or a sulfur atom,

its prodrug, or their pharmaceutically acceptable salt, or solvate thereof.

18. A compound of any one of claims 12 to 17, wherein the broken line represents the presence of a bond,

20 its prodrug, or their pharmaceutically acceptable salt, or solvate thereof.

19. A compound represented by the formula III-A:



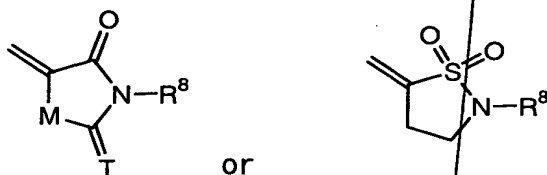
wherein, R⁹ is a hydrogen atom, optionally substituted lower alkyl, carboxy,

lower alkyloxycarbonyl, or optionally substituted aminocarbonyl;

R¹⁰ and R¹¹ are each independently a hydrogen atom, halogen, carboxy, lower alkyloxycarbonyl, optionally substituted aminocarbonyl, nitro, or optionally substituted amino;

5 Y³ is -NHCO- or -CONH-;

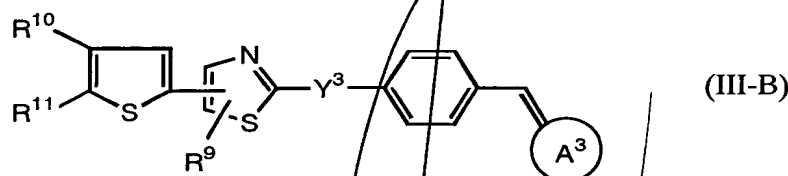
A³ is a ring represented by the formula:



wherein R⁸ is a hydrogen atom or lower alkyl; M is -S-, -O-, -N(R^c)-, or -CH₂- (wherein R^c is a hydrogen atom or lower alkyl); T is an oxygen atom or a sulfur atom,

its prodrug, or their pharmaceutically acceptable salt, or solvate thereof.

20. A compound represented by the formula III-B:



wherein R⁹, R¹⁰, R¹¹, Y³, and A³ ring are as defined in claim 19,

its prodrug, or their pharmaceutically acceptable salt, or solvate thereof.

21. A pharmaceutical composition containing a compound of any one of claims 12 to 20 as an active ingredient.

22. A pharmaceutical composition which contains as an active ingredient a compound of any one of claims 12 to 20 for exhibiting thrombopoietin agonism.

23. An agent for treating or preventing hemopathy which contains as the active ingredient a compound of any one of claims 12 to 20.

24. A pharmaceutical composition containing as the active ingredient a

compound of any one of claims 12 to 20, which is a platelet production modifier.

25. Use of a compound of any one of claims 12 to 20 for preparation of a pharmaceutical composition for treating hemopathy.

5 26. A method for treating hemopathy of a mammal, including a human, which comprises administration to said mammal of a compound of any one of claims 12 to 20 in a pharmaceutically effective amount.



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